

**DECLARATION
AND
DESIGNATION OF CORRESPONDENCE ADDRESS**

As an inventor named below, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought in the specification DP-301830 entitled

**AUTOMATED HORIZONTALLY STRUCTURED MANUFACTURING PROCESS
DESIGN MODELING**

I have reviewed and understand the contents of the above-identified specification including the claims, as amended by any amendment referred to in this Declaration.

I acknowledge my duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in title 37 Code of Federal Regulations, Section 1.56.

I further declare that all statements made above of my own knowledge are true, that all statements made above on information and belief are believed to be true, and that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under title 18 United States Code, Section 1001 and may jeopardize the validity of the application or any patent issuing thereon.

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Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector x for a specific value of n , ranging from 1 to 12. The x-axis for all histograms is labeled 'x' and ranges from 0 to 12. The y-axis is labeled 'count' and ranges from 0 to 20. The histograms show that as n increases, the distribution of non-zero elements becomes more spread out, with the peak count increasing from 1 for $n=1$ to 12 for $n=12$.